**Demo: Dissecting a glow stick**

**Materials:**

1 glow stick

2 small beakers

1 eye dropper

Access to water and paper towels

**Procedure**

-cut at the top of the glow stick (just above the liquid) using garden cutters but leave a little bit on (so that the cap can open and close)

-pour the liquid into a small beaker (*Note*: this liquid is luminol mixed with an activator salt, usually iron based. Health rating = 2 for long term exposure, flammability rating = 2)

(luminol)

-remove the cap from the glow stick

-remove the clear container inside the glow stick which contains the second liquid (hydrogen peroxide, low concentration. (*Note*: hydrogen peroxide is corrosive and an oxidizer; it is at a low concentration in glow sticks)

(hydrogen peroxide)

-clean both containers (empty glow stick container and clear container) with water to minimize contamination between liquids

-cut a second chunk off the glow stick container (approx. 1 cm)

-place the clear container with second liquid back into the glow stick container

-break the clear container inside the glow stick container

-remove the top half of the clear container and pour the liquid into another clean small beaker

-using an eye dropper, add some of the second liquid into the first liquid and observe

Sample MSDS

luminol <https://fscimage.fishersci.com/msds/30356.htm>

hydrogen peroxide: <http://www.inchem.org/documents/icsc/icsc/eics0164.htm>